CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/Cube/2016-17

25.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of the work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.03.2017

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2017	25.03.2017	8.139	365.6	16.25
2	25.02.2017	25.03.2017	8.292	375.3	16.68
3	25.02.2017	25.03.2017	8.350	389.3	17.30

*Information is furnished by the Customer/Representative.

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Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/Cube/2016-17

28.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of the work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.03.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2017	28.03.2017	8.125	375.3	16.68
2	28.02.2017	28.03.2017	8.290	395.6	17.58
3	28.02.2017	28.03.2017	8.357	402.5	17.89

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Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/Precast slab/2016-17

06.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	02.03.2017
Date of Testing	:	06.03.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.387	2526.89	1.56	0.952	30.25	15.41	16.64	17.47	21.84
2	50.00	79.00	0.396	2552.93	1.58	0.955	32.35	16.48	17.79	16.99	21.23
3	50.00	80.00	0.399	2540.11	1.60	0.957	33.90	17.27	18.65	17.84	22.30

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Technical Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Job No.: CTCE/BBMP/SR/W.No.14/GSB-I/GR/2016-17 Date 15.03.2017

TEST REPORT ON GRADATION FOR COARSE GRADED GARNULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Coarse Graded-I
Technical Reference	:	IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-2
Date of Testing	:	15.03.2017

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Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	0	0	0	100	100
26.5	1305	1305	26.10	73.90	55-75
4.75	2315	3620	72.40	27.60	10-30
0.075	1215	4835	96.70	3.30	<10
PAN	165				
Total	5000				

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* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading I

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Job No.: CTCE/BBMP/SR/W.No.14/GSB-1/AL/2016-17 Date 15.03.2017

TEST REPORT ON ATTERBERG LIMITS FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	GSB- (Coarse graded-I)
Technical Reference	:	IS : 2720 (Part - 5) 1985 (RA-2010), MORTH Table : 400-01
Date of Testing	:	15.03.2017

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CTCE/BBMP/SR/W.No.14/WMM/Gradation/2016-17 18.03.2017

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of Work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	18.03.2017

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	115	115	2.3	97.7	95-100
22.4	1485	1600	32.00	68.00	60-80
11.2	1120	2720	54.40	45.60	40-60
4.75	520	3240	64.80	35.20	25-40
2.36	485	3725	74.50	25.50	15-30
0.600	425	4150	83.00	17.00	8-22
0.075	615	4765	95.30	4.70	0-8

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